

RESEARCH@LOCATE 2018

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Preface

Locate is the annual conference for the spatial information and surveying industries in Australia and New Zealand. It is the meeting point of industry, government and academia. Locate18 was held jointly with GeoSmart Asia, during 9-11 April 2018 at Adelaide Convention Centre.

Research@Locate, the academic research stream at Locate, aims to be the premier academic meeting event in the Australasian region. Research@Locate18 was organised by the Australasian Spatial Information Education and Research Association (ASIERA). Research@Locate provides a transparent full-paper peer review process, with carefully selected presentations and papers, and with its own annual, open-access proceedings.

Research@Locate 2018 was endorsed by the International Cartographic Association (ICA).

The presentations this year were held across two days, and organised around 20 streams. Six out of nine submitted papers were accepted and presented in four different streams: The Right Location, The Science of Geospatial, Science of Smart Cities, and Location Intelligence II.

Acknowledgements

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Stefan Peters, Chair

Kourosh Khoshelham, Chair

April 2018

Organisation

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Conference Program

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Stream: The Right Location

An Augmented Algorithm for Public Transit Transfers

Wei Sun, Lining Zhu and Zhiyuan Hong

1-8

Stream: The Science of Geospatial

A method for partitioning very small targets that accounts for crossing point constraints

Yong Yin and Wei Wu

9-16

De-jitter and compensation methods for partition lines of long and narrow patches

Chengming Li, Yong Yin and Zhiyuan Hong

17-24

Stream: Location Intelligence II

Deriving place graphs from spatial databases

*Ehsan Hamzei, Hao Chen, Hua Hua, Maria Vasardani, Martin Tomko and
Stephan Winter*

25-32

Stream: Science of Smart Cities

Real-time image-based parking occupancy detection using deep learning

Debaditya Acharya, Weilin Yan and Kouros Khoshelham

33-40

Movement pattern analysis using Voronoi Diagrams

David Amores and Maria Vasardani

41-48